

**A METHOD FOR OBTAINING CONSENSUS CLASSIFICATION
AND IDENTIFICATION BY COMBINING DATA FROM DIFFERENT
EXPERIMENTS**

Vauterin et al.

Appl. No.: 10/758,249 Atty Docket: DECLE62.001A
REPLACEMENT SHEET

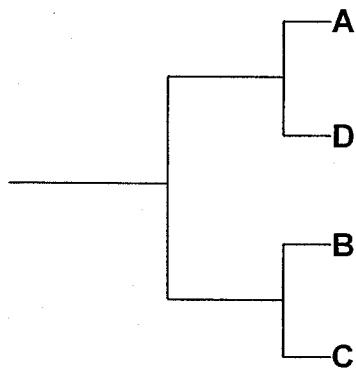
Figure 1-A

		Experiment Number			
		Experiment 1	Experiment 2	Experiment 3	Experiment 4
Sample Number	Genotype 1	13	27	5	52
	Genotype 2	38	54	28	50
	Genotype 3	18	36	17	60
	Genotype 4	17	25	7	50

Figure 1-B

	G1	G2	G3	G4
G1	100			
G2	68	100		
G3	77	96	100	
G4	97	85	72	100

Figure 1-C



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FIGURE 2-A

	G1	G2	G3
G1	100		
G2	97	100	
G3	70	86	100

S₁

	G1	G2	G3
G1	100		
G2	93	100	
G3	76	80	100

S₂

$$S_c = \frac{S_1 + S_2}{2}$$

	G1	G2	G3
G1	100		
G2	95	100	
G3	73	83	100

S_c

FIGURE 2-B

	G1	G2	G3
G1	100		
G2	97	100	
G3	70	86	100

S₁

	G1	G2	G3
G1	100		
G2	93	100	
G3	76	80	100

S₂

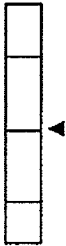

$$S_c = \frac{15S_1 + 6S_2}{15 + 6}$$

	G1	G2	G3
G1	100		
G2	96	100	
G3	72	84	100



S_c

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Figure 3-A

	Experiment 1
Genotype 1	
Genotype 2	

Similarity coefficient = $\frac{2}{3} = 66\%$

	Experiment 1
Genotype 1	
Genotype 3	

Similarity coefficient = $\frac{3}{4} = 75\%$

	Experiment 1
Genotype 2	
Genotype 3	

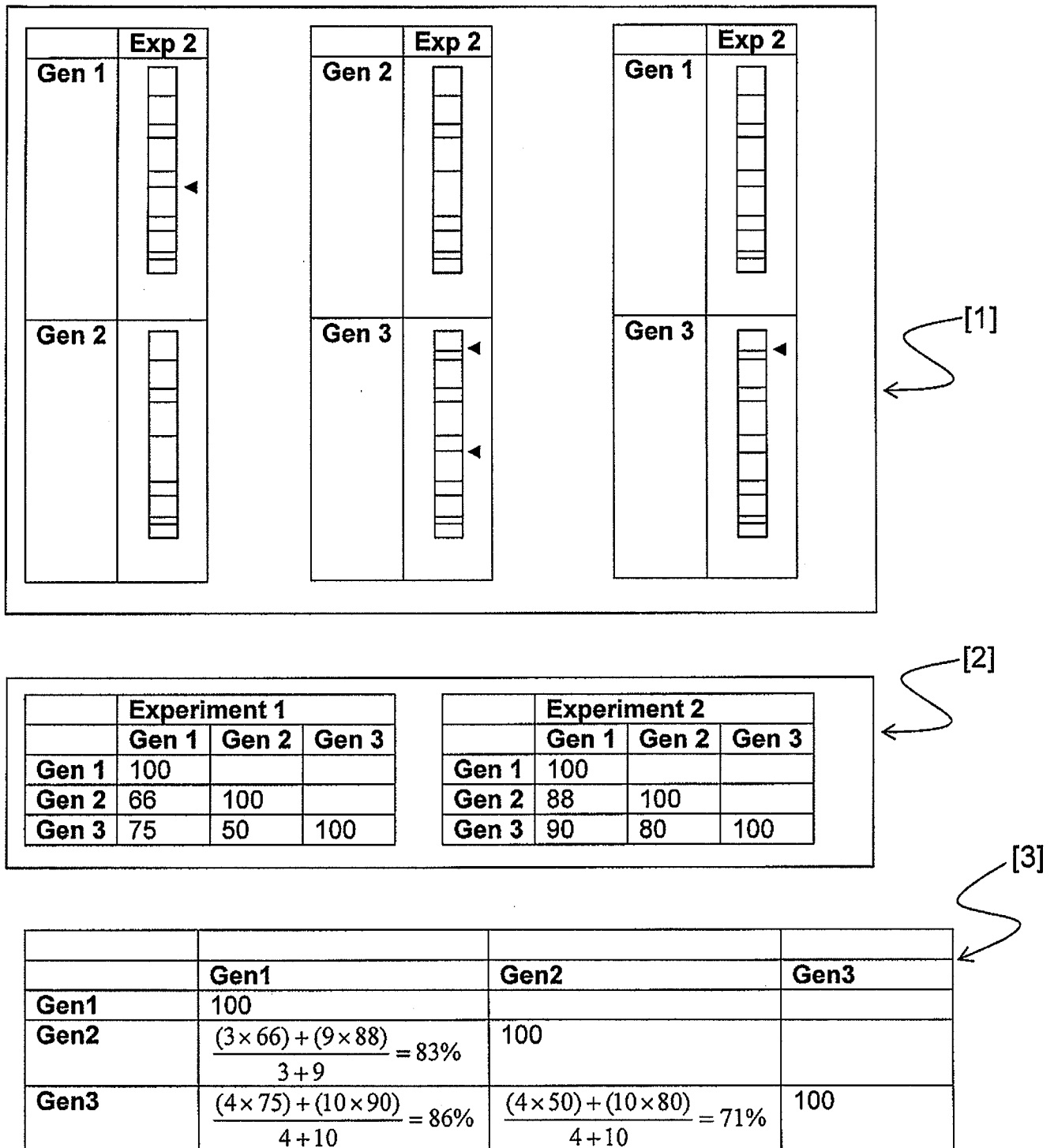
Similarity coefficient = $\frac{2}{4} = 50\%$

Similarity matrix

	Gen 1	Gen 2	Gen 3
Gen 1	100		
Gen 2	66	100	
Gen 3	75	50	100

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Figure 3-B



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FIGURE 4

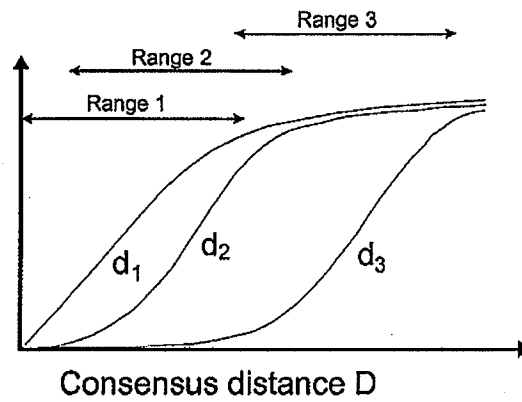
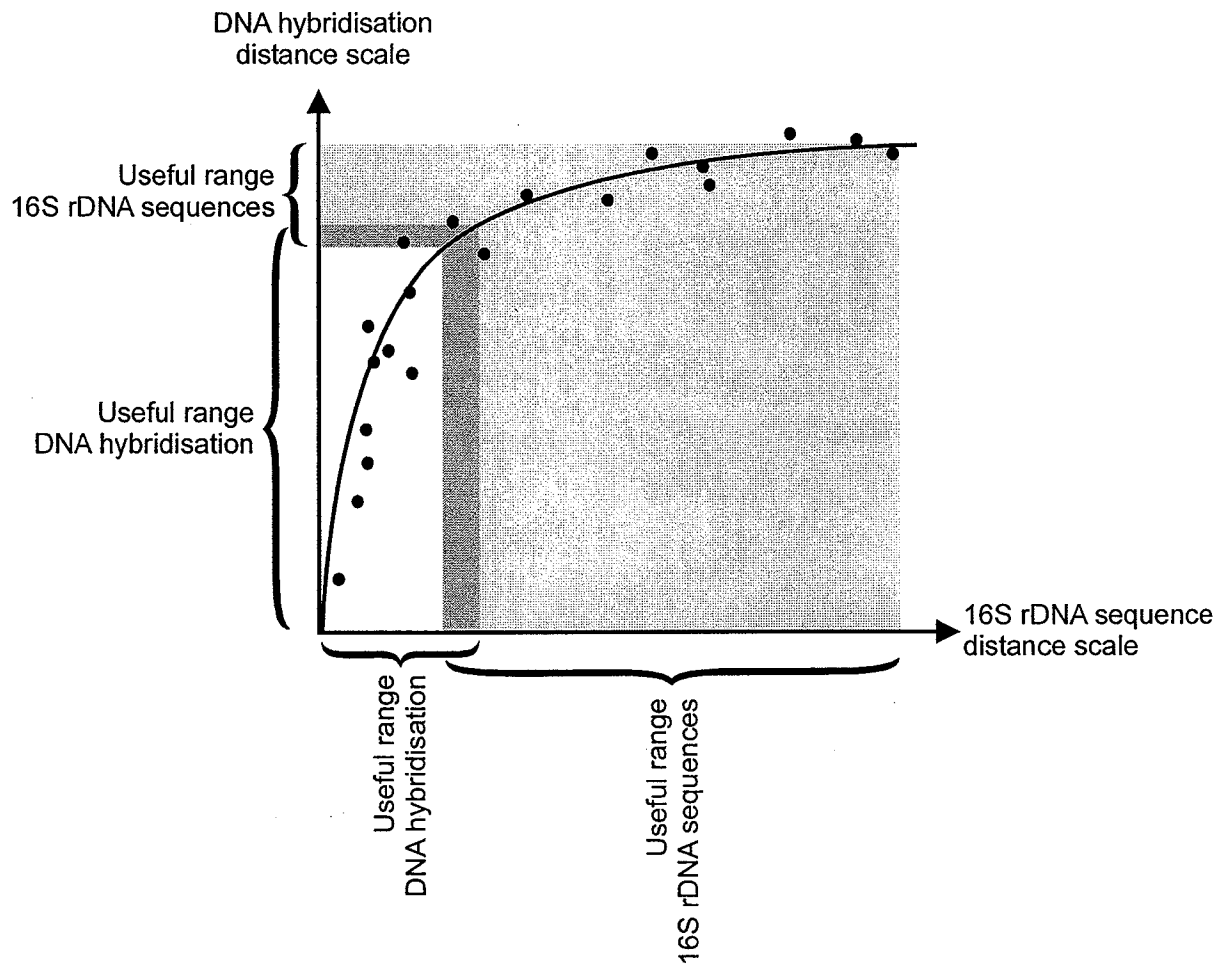


FIGURE 5A

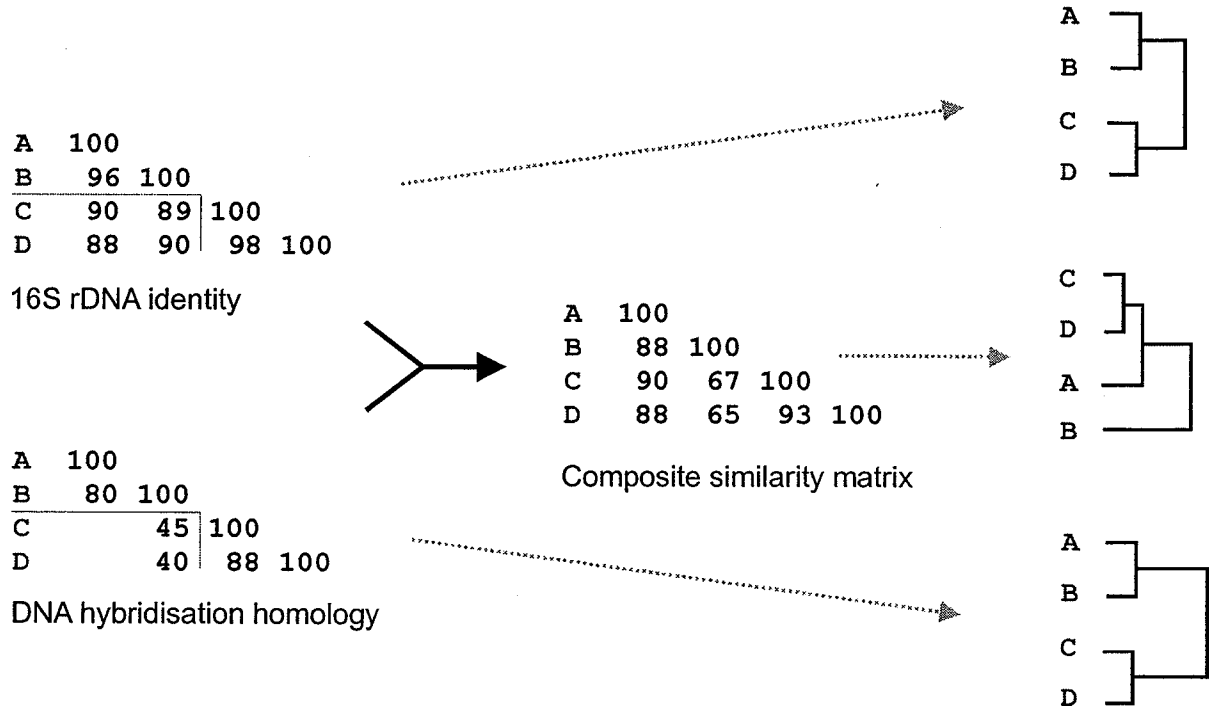


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FIGURE 5B



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FIGURE 6

Strain	Serotype	PFGE - XbaI					PFGE - AvrII				
STR1	A2										
STR2	A1										
STR3	A1										
STR4	A2										
STR5	A3										
STR6	A1										

FIGURE 7

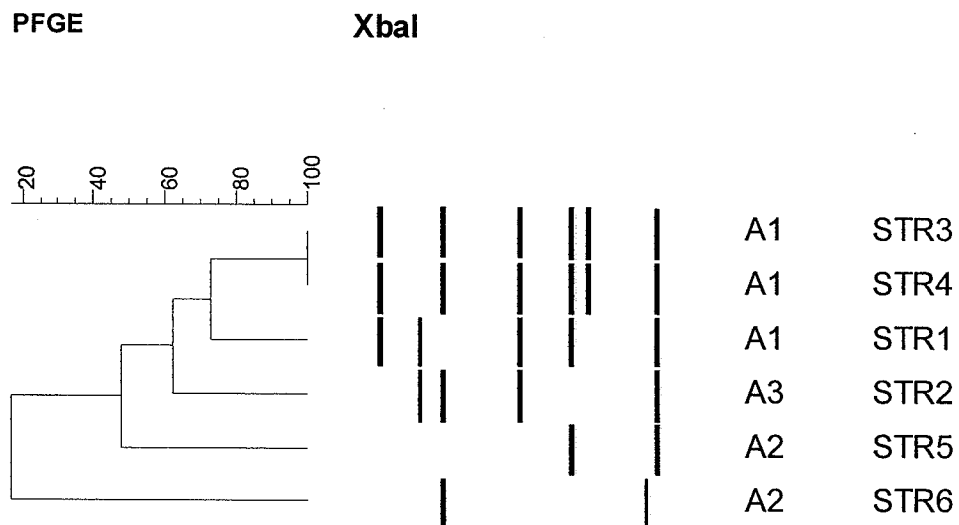


FIGURE 8

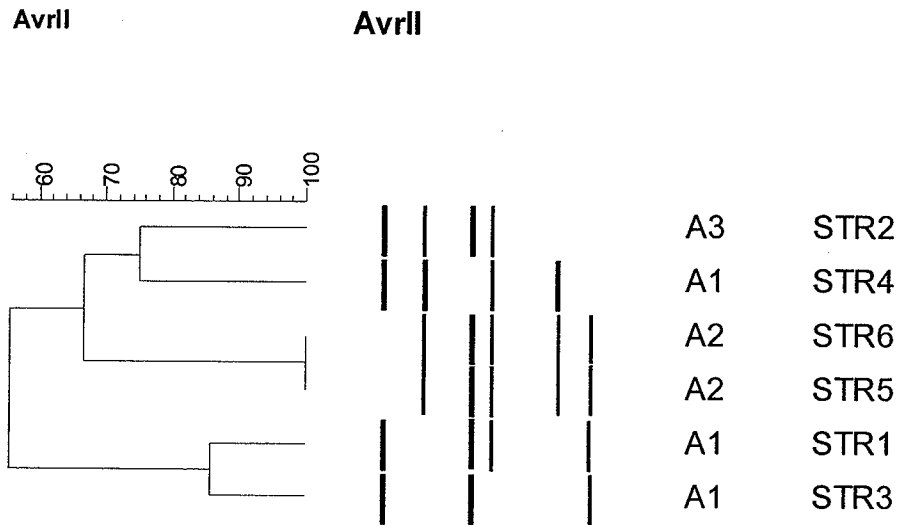
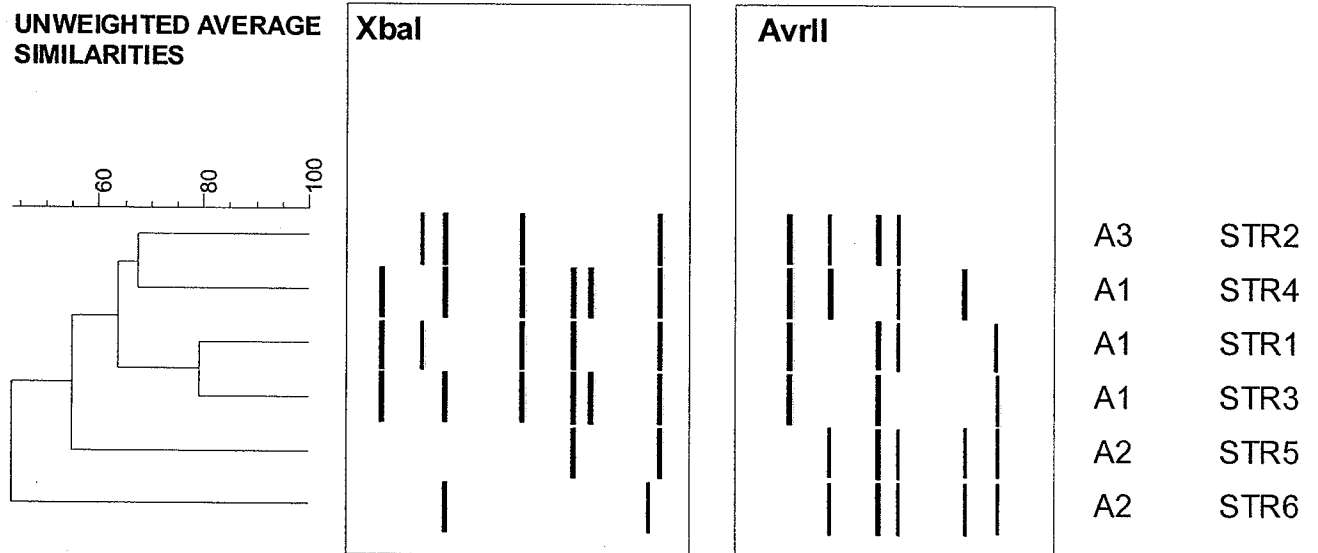


FIGURE 9

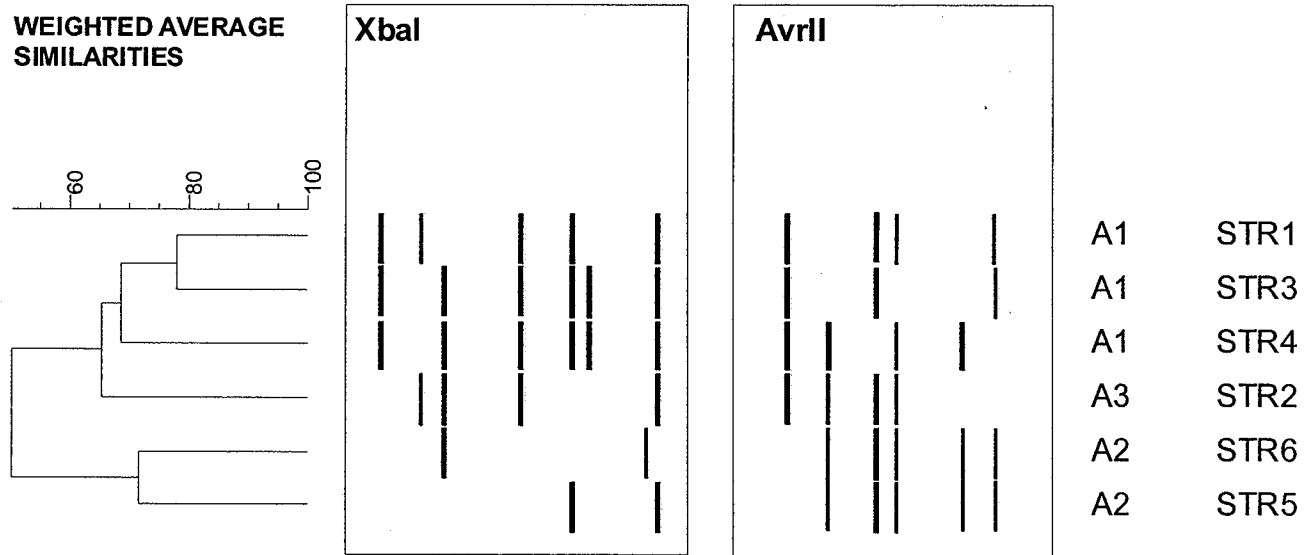


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FIGURE 10



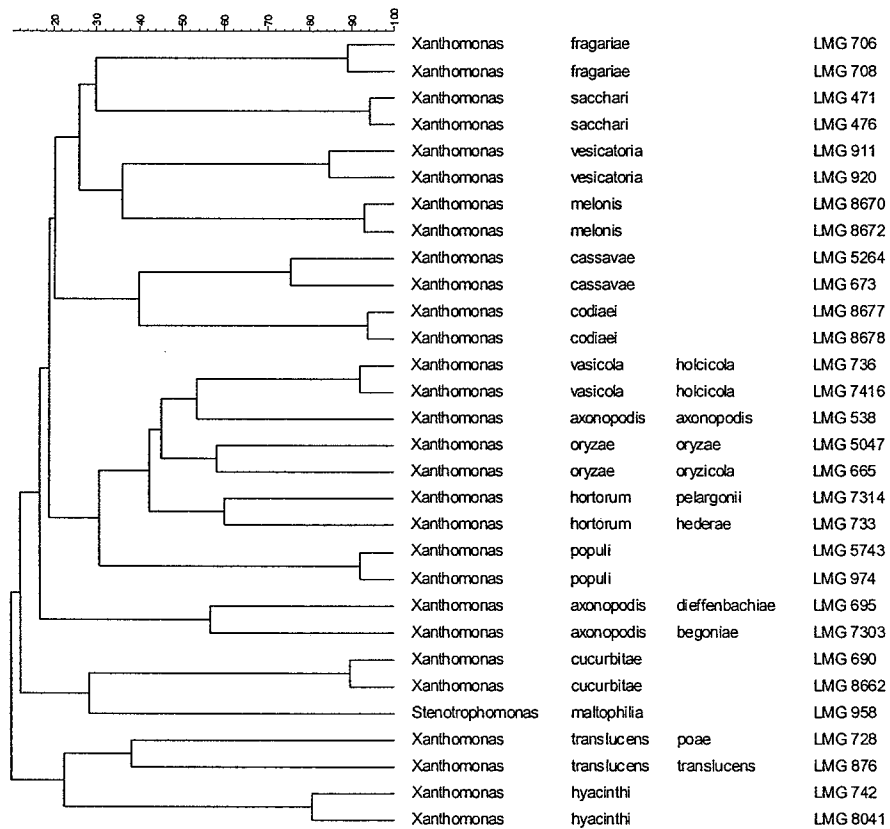
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FIGURE 11

Pearson correlation (Opt0.30%) [3.6%-97.7%]
AFLP



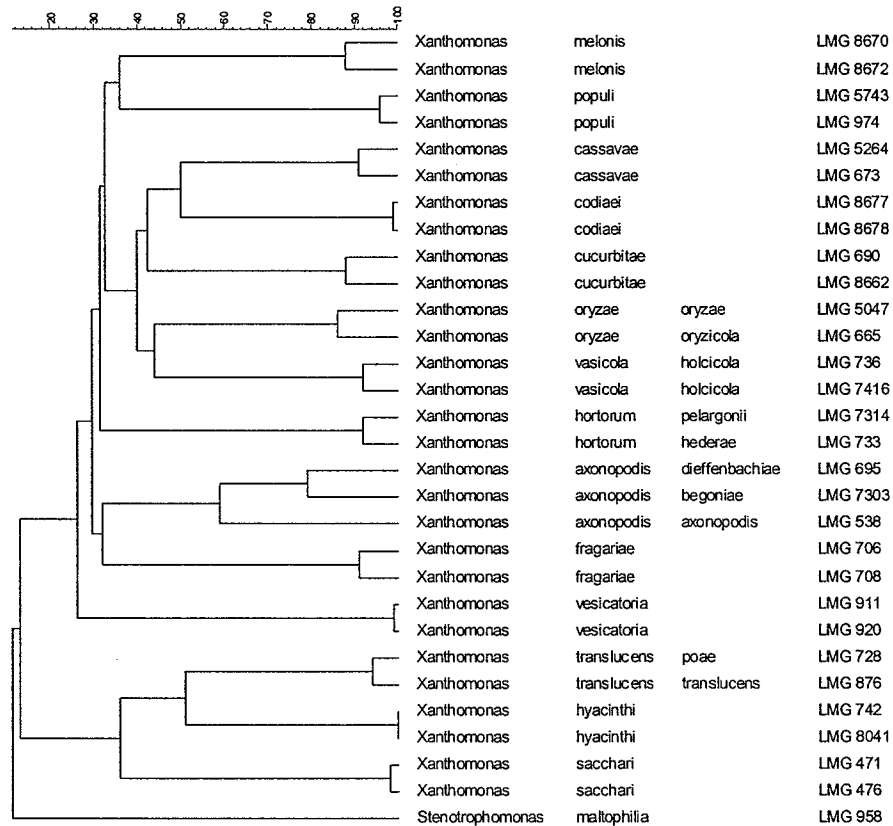
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FIGURE 12

DNA hybridization



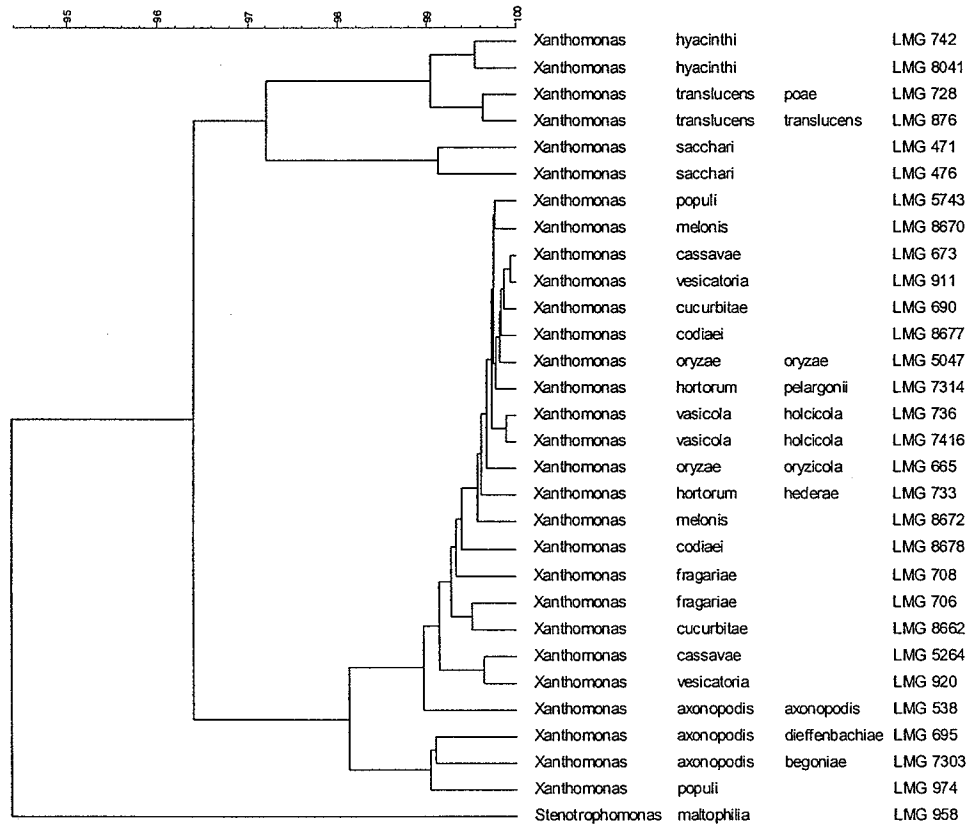
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FIGURE 13

Pairwise (CG:100%, U3:3%) (FAST:2,10) Gapcost:0% Disc. unk.
16S rRNA



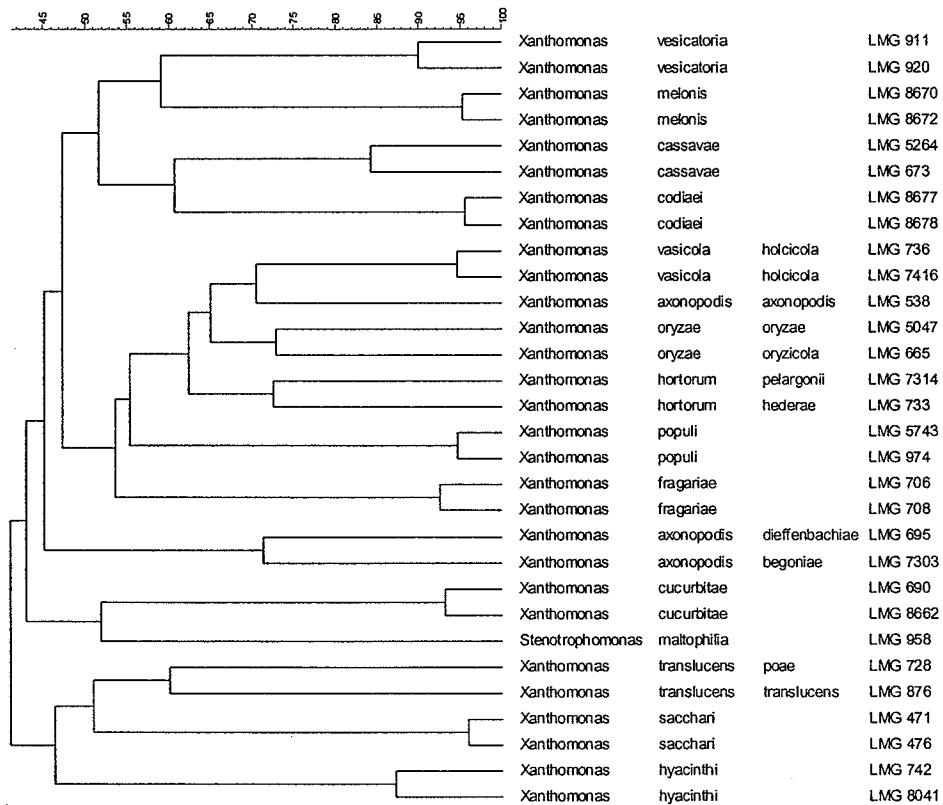
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FIGURE 14

ARLP+16S rRNA+DNA hybridization
AFLP+16S+DNA/DNA

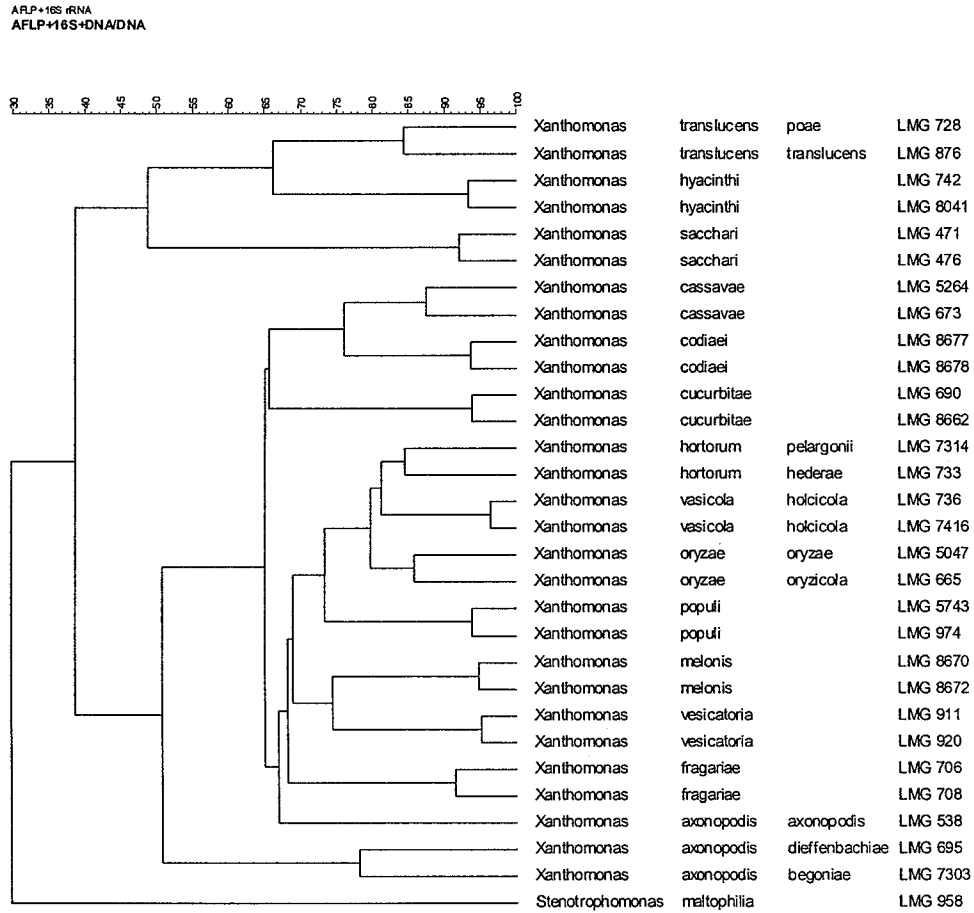


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FIGURE 15



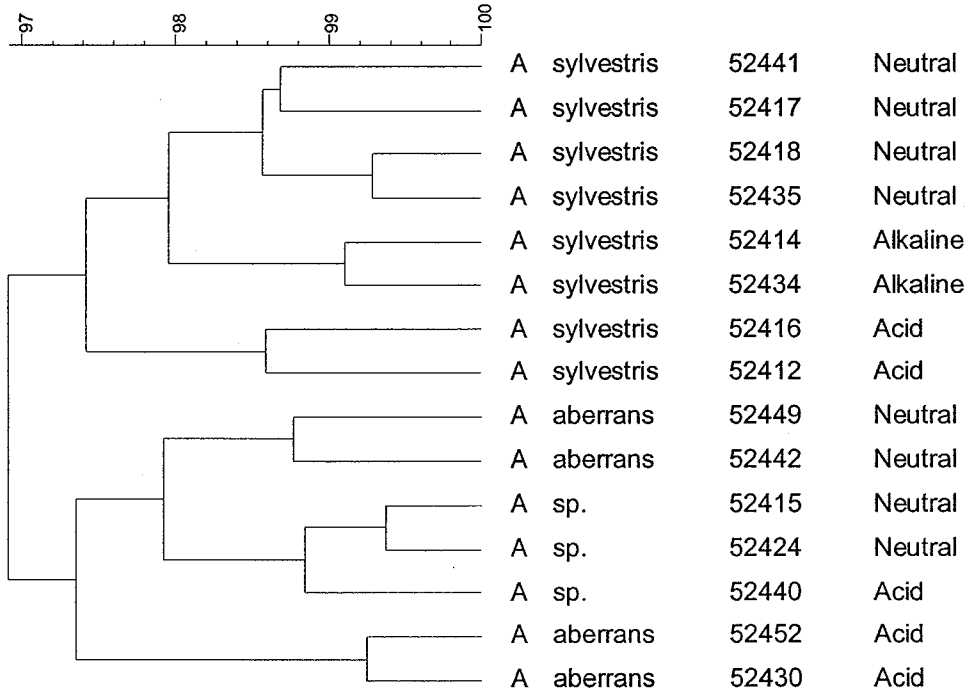
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FIGURE 16

Euclidian distance
FAME



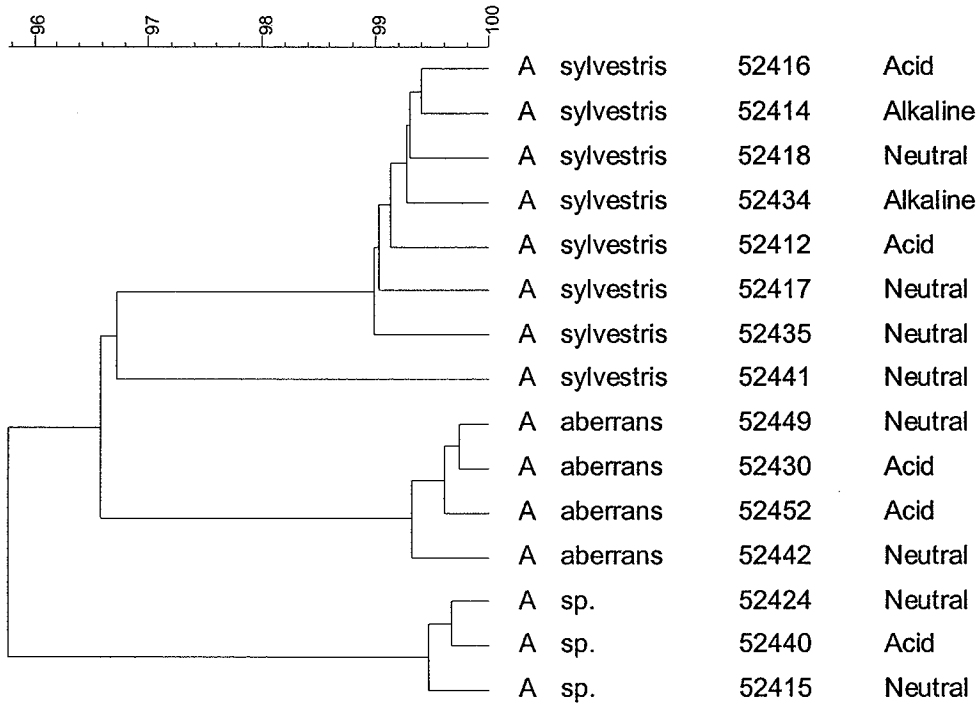
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FIGURE 17

Pairwise (OG:100%,UG:0%) (FAST:2,10) Gapcost:0%
Histon H3



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FIGURE 18

FAME+Histon H3
Composite

